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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/588,980	08/10/2006	Daisuke Shirai	3557G-000068/US/NP	4632	
27572 HARNESS DI	7590 01/24/2008 ICKEY & PIERCE, P.L.C.		EXAMINER		
P.O. BOX 828			TRAN,	TRAN, BINH Q	
BLOOMFIELI	O HILLS, MI 48303		3557G-000068/US/NP 4633 EXAMINER TRAN, BINH Q ART UNIT PAPER NU 3748 MAIL DATE DELIVERY	PAPER NUMBER	
	•		3748		
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			01/24/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	H .				
	Application No.	Applicant(s)			
	10/588,980	SHIRAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	BINH Q. TRAN	3748			
The MAILING DATE of this communication		ith the correspondence address -	-		
Period for Reply			.		
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNICATION IN 1.136(a). In no event, however, may a mid will expire SIX (6) MO atute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on _		·			
2a) ☐ This action is FINAL . 2b) ☑ T	This action is non-final.				
3) Since this application is in condition for allo	wance except for formal mat	ters, prosecution as to the merits	s is		
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application	on.				
4a) Of the above claim(s) is/are without		·			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.		,			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction an	d/or election requirement.				
Application Papers					
9) The specification is objected to by the Exam	niner.				
10) The drawing(s) filed on is/are: a) =	accepted or b)⊡ objected to	by the Examiner.			
Applicant may not request that any objection to					
Replacement drawing sheet(s) including the cor					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form P10-152	.		
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1.⊠ Certified copies of the priority docum	ents have been received.				
2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the p		received in this National Stage			
application from the International Bu					
* See the attached detailed Office action for a	list of the certified copies no	; received.			
Attachment(s)		·			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) 🔲 Notice of	(s)/Mail Date Informal Patent Application			
Paper No(s)/Mail Date <u>08/10/2006,02/21/2007</u> .	6) Other:	·			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. More specifically,

- In claims 1 and 4, the phase "etc." renders the claim indefinite.

The claims not specifically mentioned are indefinite since they depended from one of the above claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-6 are rejected under 35 U.S.C. 102 (b) as being anticipated by Pawson et al. (Pawson) (Patent Number 6,722,124).

Regarding claims 1 and 4, Pawson discloses an SCR muffler (1) which comprises: an SCR catalyst (12) for selectively reducing and purging nitrogen oxide (NOx) contained in exhaust gas; an exhaust pipe (2) that allows the exhaust gas to flow into the SCR catalyst (12); and a reducing agent (9), etc., supplying nozzle (9) that supplies a reducing agent or a reducing agent precursor to the exhaust gas, characterized in that the reducing agent, etc., supplying nozzle is of a double pipe structure (e.g. See Figs. 1-3; col. 3, lines 18-67; col. 4, lines 1-43).

Regarding claims 2 and 5, Pawson further discloses a heat retaining material (7) is provided in between an inner pipe and an outer pipe that form the double pipe structure (e.g. See Figs. 1-3; col. 3, lines 18-67; col. 4, lines 1-43).

Regarding claims 3 and 6, Pawson further discloses that there is a space (7) defined between an inner pipe and an outer pipe that form the double pipe structure (e.g. See Figs. 1-3; col. 3, lines 18-67; col. 4, lines 1-43).

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Claims 1-6 are rejected under 35 U.S.C. 102 (b) as being anticipated by Rusch et al. (Rusch) (Patent Number 6,442,933).

Regarding claims 1 and 4, Rusch discloses an SCR muffler (2) which comprises: an SCR catalyst (16, 18) for selectively reducing and purging nitrogen oxide (NOx) contained in exhaust gas; an exhaust pipe (8) that allows the exhaust gas to flow into the SCR catalyst (16, 18); and a reducing agent (4, 12), etc., supplying nozzle (12) that supplies a reducing agent or a reducing agent precursor to the exhaust gas, characterized in that the reducing agent, etc., supplying nozzle is of a double pipe structure (e.g. See Figs. 1-2; col. 3, lines 42-67; col. 4, lines 1-50).

Regarding claims 2 and 5, Rusch further discloses a heat retaining material (22, 30) is provided in between an inner pipe and an outer pipe that form the double pipe structure (e.g. See Figs. 1-2; col. 3, lines 42-67; col. 4, lines 1-50).

Regarding claims 3 and 6, Rusch further discloses that there is a space (23) defined between an inner pipe and an outer pipe that form the double pipe structure (e.g. See Figs. 1-2; col. 3, lines 42-67; col. 4, lines 1-50).

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consists of five patents:

Stiermann et al. (Pat. No. 7017336), Liu et al. (Pat. No. 6722123), Verdegan et al. (Pat. No. 6601385), Bareis et al. (Pat. No. 5771689), and Oshima et al. (Pat. No. 5272871) all discloses an exhaust gas purification for use with an internal combustion engine.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The examiner can normally be reached on Monday-Friday from 8:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

January 21, 2008

Binh Q. Tran

Patent Examiner

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